

SCAR/SC-AGI Activity Report, September 2014 - June 2015

ITALY (Carlo Baroni)

SCAR Composite Gazetteer for Antarctica (February 2014 - May 2015).

At the date of 10 June 2015, the number of records (place names) in the CGA was **37320**.

The technical contact for new entries is Mrs Jaqueline Muller, who is still flanked by Chiara Ramorino for submitting files to the Australian Antarctic Data Centre (Ursula Harris).

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In the future Jacqueline will continue the work done before by Chiara Ramorino.

As it concerns the **Gazetteer**, since the beginning of 2014 the following actions have been carried out:

- 1) February/March 2014 - 68 new Bulgarian names have been uploaded according to Lyubomir Ivanov's request; the upload was done using the "old" system through an Access database file by Chiara Ramorino.
- 2) June 2014 - Several US names were updated and some new names added (upload done by Chiara Ramorino using the "old" system through an Access database file). It was however no longer possible to download Access files of single countries.
- 3) November 2014 - 48 new Bulgarian names were presented by Lyubomir Ivanov: due to changes in the AAD server security system, Access database files could no longer be uploaded. It took quite a long time to find a solution (names were added in March 2015). Comma separated value files sent to Ursula Harris seem now to be the easiest way for uploading several entries while single entries can be done through the website facility. The whole gazetteer of single countries

can be done as .csv or .kml files.

- 4) November 2014 - three Bulgarian names have been modified according to L. Ivanov's request.
- 5) December 2014 - four new UK names were added (manually by Chiara Ramorino).
- 6) February 2015 - Dr. Songtao sent a list of 359 (three hundred and fifty nine) Chinese names to be uploaded (East Antarctica). Many names were already listed in the CGA (279 names are already in the database), some of them should be updated, some should be deleted. We did a merge with the names already existing in the CGA as there are names that already appear in the gazetteer. Dr. Songtao was asked to check and to furnish a final list of names that have to be added and names that must be modified. Furthermore, he was asked to arrange an English language check. Dr. Songtao sent a new file on May 2015 but some names are still to be checked. We will upload the updated list as soon as it will be validated.
- 7) March 2015 - Nathalie Moreigneaux, upon her request, was informed on how to proceed for new entries for France. At the moment, France names in the CGA are 223).
- 8) March 2015 - Philippe Cottier (Switzerland), upon his request, was informed on how to proceed for naming officially 2 unnamed peaks he ascended for the first time with other 3 Swiss mountaineers in January 2015 (Antarctic Peninsula). We suggested to contact the Swiss Authority for geographic names and ask them to approve the new toponyms. We are at disposal for supplying information on formal documentation. This is a delicate question, worthy of attention of the SC_AGI: there is a growing interest in climbing Antarctic peaks with an eventually increasing request for naming visited sites. An approach shared by all the members of the SC_AGI would help very much.
- 9) May 2015 - Lyubomir Ivanov has presented a request to add 46 new Bulgarian names and update ID 18577 Djerassi Glacier. The update has been done, a csv file of the new entries has been sent to Ursula Harris.

About the Paul Morin's proposal of supplying to SC_AGI team a special access to a georeferenced mosaic of high-resolution Digital Globe satellite imagery covering Antarctica, we would be very interested in having access to this extremely valuable facility for checking descriptions of names and their coordinates.

We also would be interested in developing a program of international exchange of information and experience for students to involve in checking descriptions of names, precise locations and coordinates.

SCAR MAP CATALOGUE

We scanned at 600 DPI Geomorphological, Geological, and Geophysical maps produced in the framework of the Italian National Antarctic Programme (PNRA). Files are in .Tiff format. The list of the scanned documents and references is here attached (**Annex 1**).

Other topographic maps, satellite image mosaic, and geological maps at various scale are under processing for scanning with the same resolution.

The maps will be available for:

- **SCAR-Map catalog**
- **SCAR Geological Mapping Update Action Group**
- and will be also at disposal of **the Polar Geospatial Center**.

References of the available documents are furnished for correct citation of the maps (**Annex 2**).

Carlo Baroni

Pisa, June 10, 2015.

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ANNEX 1
List of the maps produced by PNRA
(Italian National Antarctic Programme)
scanned at 600 DPI

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Geomorphological and Glaciological Maps (3 sheets at the scale of 1:250,000):

- Mt. Melbourne
- Mt. Murchison
- Relief Inlet

Geological Maps (PNRA and Gigamap, 8 sheets at the scale of 1:250,000)

- Coulman Island
- Freyberg Mountains
- Mount Joyce
- Mount Melbourne
- Mount Murchison
- Reeves Neve
- Relief Inlet
- Sequence Hills

Geophysical Maps (Geomagnetic)

- Total Magnetic Anomaly Map of Victoria Land (Central-southern): [Sheet A](#) [Sheet B](#)
- [Total Magnetic Anomaly Map of Marie Byrd Land \(Edward VII Peninsula/Sulzberger Bay\)](#)
- [Total Magnetic Anomaly Map of Northern Victoria Land between Central Rennick Glacier and Evans Névé](#)

Miscellaneous maps (scanning in progress at 600 DPI)

- [Northern Foothills \(Victoria Land\) \(Immagine da satellite\) - Frezzotti et al., 1:50 000](#)
- [Satellite Image Mosaic of the Terra Nova Bay Area \(Victoria Land, Antarctica\) - Borfecchia & Frezzotti, 1:250 000](#)
- [Glaciological Map of Matusевич Glacier Area \(Oates Coast, East Antarctica\) - Frezzotti et al., 1:250 000](#)
- [Geopetrographic Map of the Terra Nova Intrusive Complex - Rocchi et al., 1:50 000](#)
- [Geological Map of the Area between David and Mariner Glaciers, Victoria Land, Antarctica - Pertusati et al. \(coord.\), 1:500 000](#)
- [Geological and Structural Map of the Area between the Aviator Glacier and Victory Mountains, Northern Victoria Land - Antarctica - Pertusati & Tessensohn \(coord.\), 1:250 000](#)

ANNEX 2

PNRA - MAP LIST – References

GEOMORPHOLOGICAL AND GLACIOLOGICAL MAPS

Mount Melbourne Quadrangle (Victoria Land)

Baroni C. (ed.), Biasini A., Bondesan A., Denton G.H., Frezzotti M., Grigioni P., Meneghel, M., Orombelli G., Salvatore M.C., Della Vedova A.M. & Vittuari L. (2005). *Mount Melbourne Quadrangle, Victoria Land, Antarctica 1:250,000 (Antarctic Geomorphological and Glaciological Map Series)*. In: Haerberli W., Zemp M., Hoelzle M., Frauenfelder R. & Kääh A. (eds.), 2005, *Fluctuations of Glaciers 1995-2000 (Vol. VIII)*. IUGG (CCS) / UNEP / UNESCO, World Glacier Monitoring Service, Zurich, Switzerland: 288 pp. ISSN: 1997-910X (print) and 1997-9118 (online)

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Mt. Murchison Quadrangle (Victoria Land)

Baroni C., Frezzotti M., Salvatore M.C., Meneghel M., Tabacco I.E., Vittuari L., Bondesan A., Biasini A., Cimbelli A., and Orombelli G. (2004) - ***Antarctic Geomorphological and Glaciological 1:250,000 map series. Mt. Murchison Quadrangle (northern Victoria Land)***. Explanatory notes. (with geomorphological map at the scale of 1:250.000). *Annals of Glaciology*, v. 39, 256-264.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Relief Inlet Quadrangle (Victoria Land)

Baroni C. (ed.), Biasini A., Cimbelli A., Frezzotti M., Orombelli G., Salvatore M.C., Tabacco I. & Vittuari L. (2005). *Relief Inlet Quadrangle, Victoria Land, Antarctica 1:250,000 (Antarctic Geomorphological and Glaciological Map Series)*. In: Haerberli W., Zemp M., Hoelzle M., Frauenfelder R. & Kääh A. (eds.), 2005, *Fluctuations of Glaciers 1995-2000 (Vol. VIII)*. IUGG (CCS) / UNEP / UNESCO, World Glacier Monitoring Service, Zurich, Switzerland: 288 pp. ISSN: 1997-910X (print) and 1997-9118 (online)

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

GEOLOGICAL MAPS

Coulman Island Quadrangle (Victoria Land)

Capponi G., Meccheri M., Oggiano G., Casnedi R., Crispini L., Kleinschmidt G., Montrasio A., Pertusati P.C., Roland N.W., Salvini F., Schmidt-Thomé M., Tessensohn F. (1997). ***Coulman Island Quadrangle (Victoria Land). Antarctic Geological 1:250,000 Map Series***. GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Freyberg Mountains Quadrangle (Victoria Land)

Capponi G., Meccheri M., Pertusati P.C., Carosi R., Crispini L., Musumeci G., Oggiano G., Roland N.W., Tessensohn F. (2012). ***Freyberg Mountains Quadrangle (Victoria Land). Geological 1:250,000 Map Series.*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy)

Mount Joyce Quadrangle (Victoria Land)

Capponi G., Crispini L., Meccheri M., Musumeci G., Pertusati P.C., Baroni C., Delisle G., Orsi G. (1999). ***Mount Joyce Quadrangle (Victoria Land). Antarctic Geological 1:250,000 Map Series.*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Mount Melbourne Quadrangle (Victoria Land)

Pertusati P.C., Musumeci G., Carosi R., Meccheri M., Baroni C., Capponi G., Carmignani L., Castelli D., Colombo F., Crispini L., Di Vincenzo G., Ghezzi C., Gosso G., Lomardo B., Montomoli C., Montrasio A., Oggiano G., Perchiazzi N., Ricci C.A., Rocchi S., Salvini F., Skinner D.N.B., Talarico F., Tessensohn F. (2012). ***Mount Melbourne Quadrangle (Victoria Land). Geological 1: 250,000 Map Series.*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Mount Murchison Quadrangle (Victoria Land)

Capponi G., Meccheri M., Pertusati P.C., Castelli D., Crispini L., Kleinschmidt G., Lombardo B., Montrasio A., Musumeci G., Oggiano G., Ricci C.A., Roland N.W., Salvini F., Skinner D.N.B., Tessensohn F. (1997). ***Mount Murchison Quadrangle (Victoria Land). Antarctic Geological 1:250,000 Map Series.*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Relief Inlet Quadrangle (Victoria Land)

Capponi G., Crispini L., Meccheri M., Musumeci G., Pertusati P.C., (1999). ***Relief Inlet Quadrangle (Victoria Land). Antarctic Geological 1:250 000 Map Series.*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Sequence Hills Quadrangle (Victoria Land)

Carosi R., Meccheri M., Musumeci G., Pertusati P.C., Montomoli C., Oggiano G., Ricci C.A. (2012). ***Sequence Hills Quadrangle (Victoria Land). Geological 1: 250.000 Map Series,*** GIGAMAP (German-Italian Geological Antarctic Map Program, Pertusati P.C. and Tessensohn F., Coord). Museo Nazionale dell'Antartide, Siena (Italy).

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

GEOFYSICAL MAPS (Geomagnetic)

References to be checked.

Miscellaneous maps (scanning in progress at 600 DPI)

Baroni C. (1989). *Geomorphological map of the Northern Foothills near the Italian Station, (Terra Nova Bay, Antarctica)*. In: Ricci C.A. (Ed.), Proc. meeting Geosciences in Victoria Land, Antarctica. Siena, 2-3 Sept. 1987. Memorie Società Geologica Italiana, 33, 195-211.

Carmignani L., Ghezzi C., Gosso G., Lombardo B., Meccheri M., Montrasio A., Pertusati P.C., and Salvini F. (1989). *Geological Map of the area between David and Mariner Glaciers. Victoria Land Antarctica* (at the scale of 1:500,000). In Ricci C.A., ed., Proc. meeting Geosciences in Victoria Land, Antarctica. Siena, 2-3 Sept. 1987. Memorie Società Geologica Italiana, v. 33, pp. 77-97.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Frezzotti M., Salvatore M.C., Vittuari L., Grigioni P., De Silvestri L. (2000). *Satellite image Map – Northern Foothills and Inexpressible Island Area (Victoria Land, Antarctica), 1:50,000*. With Illustrative notes. Terra Antarctica Reports, 6, 3-8.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Frezzotti M., Raffi R., Guarracino M., Mancini M. (2002). *Glaciological Map of Matusевич Glacier Area (Oates Coast, East Antarctica)*. Terra Antarctica Reports, 7, 1-8.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

GANOVEX & ITALIANTARTIDE GEOLOGICAL TEAMS (1995). *Geological and structural map of the area between the Aviator Glacier and Victory Mountains Northern Victoria Land - Antarctica*.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm

Rocchi S., Di Vincenzo G., Ghezzi C. (2004). *The Terra Nova Intrusive Complex, Victoria Land, Antarctica* (with geopetrographic map at the scale of 1:50,000). Terra Antarctica Reports, 10, 1-15.

Also available at the Museo Nazionale dell'Antartide, Siena (Italy).

http://www.mna.unisi.it/english/Publications/Thematic_map/Carte_set.htm